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| SEQUENCE I | LΙ | ST | Ίľ | ١G |
|------------|----|----|----|----|
|------------|----|----|----|----|

<110> KANEKA CORPORATION

<120> A new promoter

<130> T747.SBP-7

<150> JP 2002-105240

<151> 2002-4-18

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<212> DNA

<213> Artificial Sequence

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<223> PCR Primer for Sc-ACT1 5'

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29

<210> 2

<211> 29

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| <223> PCR Primer for Sc-ACT1 3'  |    |
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| <400> 2                          |    |
| ccggaattca agacagcacg aggagcgtc  | 29 |
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| <211> 30                         |    |
| <212> DNA ·                      |    |
| <213> Artificial Sequence        |    |
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| <223> PCR Primer for Sc-GAP3 5'  | •  |
|                                  |    |
| <400> 3                          |    |
| atgatcagaa ttgctattaa cggtttcggt | 30 |
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| <210> 4                          |    |
| <211> 29                         |    |
| <212> DNA                        |    |
| <213> Artificial Sequence        |    |
|                                  |    |
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| <223> PCR Primer for Sc-GAP3 3'  |    |

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| <400> 4                          |    |
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| ttaageettg geaacatatt egateaagt  | 29 |
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| <210> 5                          |    |
| <211> 30                         |    |
| <212> DNA                        |    |
| <213> Artificial Sequence        |    |
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| <220>                            |    |
| <223> PCR Primer for Sc-PMA1 5'  |    |
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| <400> 5                          |    |
| atgactgata catcatcctc ttcatcatcc | 30 |
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| <210> 6                          |    |
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| <212> DNA                        |    |
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| <223> PCR Primer for Sc-PMA1 3'  |    |
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| <400> 6                          |    |

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| <211> 30                         |    |
| <212> DNA                        |    |
| <213> Artificial Sequence        |    |
|                                  |    |
| <220>                            |    |
| <223> PCR Primer for Sc-TEF1 5'  |    |
|                                  |    |
| <400> 7                          |    |
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|                                  |    |
| <210> 8                          |    |
| <211> 30                         |    |
| <212> DNA                        |    |
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| <223> PCR Primer for Sc-TEF1 3'  |    |
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| <211> 1300                       |    |
| <212> DNA                        |    |

<213> Candida maltosa

<220>

<223> Cm-ACT1 Promoter

<400> 9

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<210> 10

<211> 3000

<212> DNA

<213> Candida maltosa

<220>

<223> Cm-GAP3 Promoter

<400> 10

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ttttcctttt cctttttcat tcacaccacc accatataga atttacttac gtcaggttat 1080 attctagaca acctttgtgg tttttttttt taaagggaat ttgagccact atgtccatag 1140 aaaacttttt actgtaacga aaatctatag tctgagataa aggggaaaat ggtaaccacg 1200 tattttttta tttttttttg gattcctata accccgatat ttatgttcgg aattgtagat 1260 atatagatat tecagattae ttggetgtaa tgtaggetat ggaaatgata etaeteatea 1320 atataaaccc attgacagta taagatagat aattatactg tggtggtacc atataaaatt 1380 ttetttttttg ttttttgttg gttgtttgat geaaatggat gataatgeec egggegeggg 1500 cgtgtgtgac gcaaatccaa tagaaaaaat tcacctggtt aaacctattt tcactgacaa 1560 atcaatttat tttgccaaaa gaaaaaaaga atatataata accettgaat gtccaattgg 1620 ttaacataca aaaaatggct attaaaattg gtattaacgg tttcggtaga atcggtagat 1800 taqtettqaq aattgettta ggcagaaaag acattgaagt tgttgccgtc aacgatecat 1860 tcattgctgc tgattacgct gcttacatgt tcaaatacga ttccacccac ggtagataca 1920 aaggtgaagt caaatctgaa ggtaacgatt tagtcattga cggtaagaaa atccaagtct 1980 tccaagaaag agacccagct aacattccat ggggtaaaga aggtgttgaa tatgttattg 2040 actccactgg tgttttcacc aagattgaag gtgctcaaaa acacattgat gctggtgcca 2100 aaaaagttat catcactggt tcatctgctg atgctccaat gttcgttgtt ggtgttaacg 2160 aagacaaata cacccagac ttgaaaatca tttctaacgc ttcctgtacc actaactgtt 2220 tageteeatt agetaaagtt ateaacgata ettteggaat tgaagaaggt ttgatgacca 2280 ctgtccactc catcactgct acccaaaaga ctgttgacgg tccttcccac aaagattgga 2340 gaggtggtag aactgcttcc ggtaacatta tcccatcttc tactggtgct gctaaagccg 2400 teggtaaagt tateecagaa ttaaaeggta aattgaetgg tatgtetttg agagtteeaa 2460 ccaccgatgt ctccgttgtt gacttgactg tcagattatc taaaccaacc acttacgaag 2520 aaatetetga agetateaag aaagetgetg atggteeatt gaaeggaate ttgggttaca 2580 ctgaagatgc tgttgtctct actgacttct tgtcttctaa ctactcttct gttttcgatg 2640 ctaaagctgg tatcttgttg tccccaactt tcgtcaaatt gatctcttgg tacgataacg 2700

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aatacggtta ctctaccaga gttgtcgact tattggaaca cgttgccaaa gtttccggtt 2760 cctcttaact cagaaacaag ttttagttga cattgtgtct gttttctttt attacatagg 2820 ttgttatatc aatatatgtt tataaatacg tcttgaaaat cttgttttt ttttttgtaa 2880 attttgtaaa ttttcatctt gtgcgggaca aaggacgagt ggagaaaaaa aaaacgaaac 2940 ttttttttt tttttccga aattgtaaac aaaaacaaca acaacactc catgtcggaa 3000

<210> 11

<211> 3173

<212> DNA

<213> Candida maltosa

<220>

<223> Cm-PMA1 Promoter

<400> 11

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### 10/20

thaaaactgg tgaagethth atggthgha cogchactgg tgacaacach thightggha 2460 gagetgetge thagheac aaagetheeg etgghactgg teathheact gaagthtiga 2520 acgghattgg tachacattg thightheeg teathghae thightiggth ghetggghtg 2580 ethighthea cagaactgh agaattghe caatethiga atacachtig gehaleaca 2640 thathightight tecagheigh thaccagetig teghnaceae taccatigger ghegghightig 2700 ethichtige tacaacaa gehaltighee aaaaattghe tightatigaa tethingetig 2760 ghightigaaat thathightie gahaaaactig ghachthigae caagaahaaa thigheithac 2820 atgaaccaha cachithgaa gightigaac cagaagacht gahijthigaet gehightig 2880 etgeheea aaagaagaag gightigaat etathigataa agehithethig aaatehtiga 2940 thaachacca aagagehaaa gehightiac caaaaahacaa aghtathigaa theeaaccht 3000 thigateetigh ethichigaa gightigeach thightigaate accagaagid gaaagaatha 3060 thightighaa gightigeaca thatheighee tigaagactig tgaagatige cahecaatec 3120 cagaagatah ecatigaaaac tatcaaaaca etgthgeega athtigethet aga 3173

<210> 12

<211> 1675

<212> DNA

<213> Candida maltosa

<220>

<223> Cm-TEF1 Promoter

<400> 12

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ccaccaccga tgccattcct ggtaataaca attctagtcg tagagaaagt gttgatgctt 300 caagtgatgt tttcagaaaa tcatttacta aaccccaaga aaatgtattt tccaaaqaqt 360 aagggtteet tettteataa caaaaaaaga aaaacaatea eegatttatt tatttatttq 420 caatgctatt tataatatat titgtagata aaaacaaatg aaaaatcttg titagctatgt 480 atactactac atatatacta caataaaaac acaccaaaat gaaacgtgtt ttgcacaatt 540 tcgcacgact cagaggcatc gcatttctgt cctttttgta cgtcattgta attttttta 600 tgttattttt tttacagcaa gcaatccaaa aaaacaaaaa aaaaatgaga gagaaaaaa 660 tgagggggtt gatttaaaaa gatggtcaaa aatattcgtg acatattaca taatcgatga 720 gtttgatatg gaacgaatat tgatggtttt ggtctgaatt gatatggtgt aagtatttgt 780 tggtgataat tttatcaaca taaactcaat tccgctcaat tgtacaaaat tgaccttctt 840 tegeettttg tteaatgeea tttttteeaa taattttttt ttteaaattt tgeeateeag 900 cacaaagaaa aaaaaaattt acatgtccga caactcaccg gtgtttctga caacaattga 960 caacaccagt ctgtagaccc aattggtaag tcaatgataa ctactacatc tacctagttg 1020 ttatetttta aettaaaatt ageaaagaaa taataatggt tateattgaa gatggtttea 1080 caaaattaaa cgaatacgtg tacgttttac caaaaagatt tttttttttc tctttagttt 1140 ttttttcgtt gttcttccca tcactgaaaa atttttctcc ctctatataa atcaatccca 1200 tcaacqaaaa ttttttttct tcctttttqa atttttttt tctccttttt ttttctcctt 1260 ttttttttctc cttttctttc ttcatctaac ttatatttaa tcaatcatgg gtaaagaaaa 1320 aactcacgtt aacgtcgttg ttattggtca cgtcgattct ggtaaatcta ctaccaccgg 1380 tcacttgatc tacaagtgtg gtggtattga caaaagaacc attgaaaaaat tcgaaaaaga 1440 agetgetgaa ttaggtaaag gttettteaa ataegettgg gtettggata aattgaagge 1500 tgaaagagaa agaggtatca ccattgatat cgctttgtgg aaattcgaaa ctccaaaata 1560 ccacgttacc gttattgatg ctccaggtca cagagatttc atcaaaaata tgattactgg 1620 tacttctcaa gctgattgtg ctattttgat tattgctggt ggtactggtg aattc 1675

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<212> DNA

<213> Artificial Sequence

<220>

<223> Polyhydroxyalkanoate Synthetase Gene, ORF2S

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| caa aaa caa aga gtt aga act gct act ttg ttt act act ttg ttg gat | 1056 |
|---|------|
| ttc tcc caa cca ggt gaa ttg ggt att ttt att cat gaa cca att atc | 1104 |
| gcc gcc tta gaa gcc caa aat gaa gct aaa ggt att atg gat ggt aga | 1152 |
| caa ttg gcc gtc tcc ttc tct ttg ttg aga gaa aac tct tta tat tgg | 1200 |
| aat tac tat att gat tct tac tta aaa ggt caa tct cca gtt gct ttt | 1248 |
| gat ttg ttg cac tgg aac tct gat tct act aat gtt gcc ggt aaa act | 1296 |
| cat aac tot ttg ttg aga aga tta tat ttg gaa aat caa ttg gtt aaa | 1344 |
| ggt gaa tta aaa att aga aac act aga att gat tta ggt aaa gtt aaa | 1392 |
| act cca gtt ttg ttg gtt tct gcc gtt gat gat cac att gct tta tgg | 1440 |
| caa ggt acc tgg caa ggt atg aaa ttg ttc ggt ggt gaa caa aga ttt | 1488 |
| tta ttg gcc gaa tcc ggt cat att gct ggt att att aat cca cca gct | 1536 |
| get aac aaa tac ggt tte tgg cac aat ggt get gaa get gaa tet eea | 1584 |
| gaa tet tgg ttg get ggt gee acc cat caa ggt ggt tee tgg tgg eea | 1632 |
| gaa atg atg ggt ttt att caa aac aga gat gaa ggt tct gaa cca gtc | 1680 |
| cca gcc aga gtc cca gaa gaa ggt ttg gct cca gct cca ggt cac tat | 1728 |
| gtc aaa gtt aga tta aac cca gtt ttc gct tgt cca acc gaa gaa gat | 1776 |
| gct gct tct aaa ttg taa 1794                                    |      |

<210> 14

<211> 218

<212> DNA

<213> Candida maltosa

<220>

<223> terminator ALK1t

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<210> 15

<211> 1017

<212> DNA

<213> Candida maltosa

<220>

<223> promoter ALK1p

<400> 15

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attacaaaga aaaaccggca tataagcatc ggagtttaca ttgttaacta actgcaaaat 840 ggcgatgttt caaatcaaca aaatttaaaa aaaccccaaa aaaaaagtat catataaatt 900 aaactcaaaa tccttttgat tgcataaaat ttttaaatct cttcttttt ttcttttta 960 ctttcttatc tattctattc ttttttata tatctaattc atttataaca tctggtc 1017

<210> 16

<211> 46

<212>DNA

<213>Artificial Sequence

<220>

<223>PCR Primer for ALK1p 5'

<400> 16

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46

<210> 17

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer for ALK1p 3'

<400> 17

ccggaattcc atatgcagat gttataaatg aattagata

| <210> 18   |    |    |
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| <212> DNA  |    |    |
| <213> Artificial Sequence                          |    |    |
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| <223> PCR Primer for ALK1t 5'                      |    |    |
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| cggaagetta tagatggatt tttetttttt at                | 32 |    |
|  |    |    |
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35

35

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| atggctatta aaattggtat taacggtttc ggtag |
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